



SPECIFICATION

1. Mechanical:
- Capacity: 0-2500PSI, Differential pressure;
  - Proof Pressure: 150% of rated range;
  - Burst pressure: Up to 400% of rated range;
  - Pressure Media: Any compatible with alloy Inconel® 718 solution annealed and aged to a minimum hardness of HRC40;
  - Background Pressure Media: Mobil HVI 26 oil or 2-methyl silicon oil, prefer the later;
  - Line pressure: Up to 25,000PSI;
  - Material: NACE-compliant Inconel® 718 Alloy;
  - Weight: 28g nominal ;
  - Recommended installation torque: (12~15)Nm;
2. Electrical:
- Excitation: 5VDC;
  - Bridge resistance: 1.2KΩ to 4.5KΩ;
  - Output at zero pressure: 0~+6% FSO ;
  - Full scale (F.S.) sensitivity: (3.3±0.4) mV/V (Customizable, up to 5.5mV/V);
  - Electrical Connections: Red=+Excitation, White=+Signal, Green=-Signal, Black=-Excitation,
  - Insulation resistance: All conductors together to case, ≥1GΩ@100VDC and +25°C;
3. Accuracy:
- Non-Linearity: 0.15%FSO (BFSL<sup>[Note1]</sup> Method over the entire operating temperature range) ;
  - Non-Repeatability: ±0.1%FSO at (25±5)°C, ±0.15%FSO at ultimate operating temperature;

- Hysteresis error: : ±0.1%FSO at (25±5)°C, ±0.15%FSO at ultimate operating temperature;
- Long-term stability: ±0.1% FSO per year<sup>[Note2]</sup>,
- Sustained pressure/temperature stability: When pressurized to full scale pressure at 175°C, full scale output will not shift more than ± 0.02%FSO in 7 days, nor more than ± 0.05%FSO in 30 days.

4. Environmental
- Working temperature range: -40°C to +205°C(400°F);
  - Thermo drift of zero: ±0.015%FSO Per °C;
  - Thermo drift of sensitivity: ±0.025%FSO Per °C;
  - Error due to combined effect of shock, vibration and acceleration shall be less than 0.01% of FSO per g;
  - Vibration: 10g(RMS),10Hz ~ 200Hz;
  - Shock:500g@1mS, half-sine acceleration.

Note1. Best-fit Straight Line method.

Note2. The long-term stability refers to the drift of the full scale output(FSO) value of the product under the same environmental conditions, otherwise specified.

UNLESS OTHERWISE SPECIFIED TOLERANCE UNLESS NOTED: X. ± 0.3 .X ± 0.2 .XX ± 0.1 ANGLES: ± 0.5° 3.2/ FINISH ALL SURFACES DEBURR BREAK ALL SHARP EDGES CONCENTRICITY OF DIA'S WITH COMMON C.L. DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED OTHER STANDARDS MAY APPLY		BY	DATE	HYDRAULIC Beijing HaiZhuoLiKang Technology Co., Ltd.			
DRAWN			2024/7/5	Low_Range Differential Pressure Transducer			
CHECKED							
APPROVED							
WEIGHT		35g		SIZE	DWG NO.	MATERIAL	REV.
FIRST ANGLE PROJECTION				A4	XXX-XX-XX	Inconel® 718	INIT. REL.
				SCALE	DO NOT SCALE	SHEET: 1 OF 1	